



**Remediation Weekly Activity Summary Report
Ameren Columbia MGP - Remedial Action**

Project Week No.: 33
Period: 8/25 - 8/29/2014 PSC Project Number: 624-1302-0002
Completed By: Dave Pluhar

General Field Activities Completed: Week Ending August 29

Final site surface grading was completed, and a new storm water inlet structure was installed onsite west of the Storage Building. The new storm water inlet structure was connected to the box culvert via a 15-inch diameter pipe.

General Field Activities Planned: Week Ending September 5

Final site restorations will be completed, the site fence along Orr Street will be moved out of the Right-of-Way and the gate at Orr and Park will be eliminated. Site utility services will be disconnected. The electric service and phone connections to the field office trailers will be removed. The electric service wiring for the perimeter air monitoring network will be removed and added to Ameren's material inventory for use at other sites. The site field office will be demobilized. The street signs will be removed and the sidewalk along the east side of Orr Street will be reopened. PSC and EOI will complete the demobilization of materials, equipment, and crew by September 5.

Air Monitoring Summary: Week Ending August 29

Burns & McDonnell completed the real-time air monitoring program on August 21. The final set of time-integrated samples were retrieved on August 22. The time-integrated air sampling network was demobilized on August 22. In total, 40 time-averaged, 72-hour air sample events were collected, including baseline, as of August 22nd from five perimeter air stations. Time-averaged samples were shipped to Con-Test Analytical Laboratory for analysis. VOC and PAH time-averaged analytical data has been received for sampling events up to August 18, 2014. PM10 time-averaged analytical data has been received for sampling events up to August 14, 2014. Time-averaged PM10, naphthalene and benzene concentrations are below the acceptable concentrations of 150 µg/m3, 4.1 µg/m3 and 41.5 µg/m3, respectively.

Weekly Project Meeting Summary: August 27, 2014

Demobilization Schedule: fence and site gate revisions are scheduled for completion on September 2. The street signs and barricades will be removed on September 3, and the Orr Street sidewalk will be reopened. Electric power disconnection to the Site are scheduled for September 3. Telephone and data line disconnections are scheduled for September 4. Water service to the Storage Building will be turned off on September 4. The field office trailers will be demobilized on September 4. PSC and EOI will complete the site material and equipment demobilization by September 5. Site Work Update: EOI is working on the site surface grading this week. The new storm water inlet structure and connection to the box culvert are scheduled for completion on August 28.



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Material Log									
Material Type:			Actual Quantities						
	Prior Total:	This Period:	Total To Date:	Phase One	Phase Two	Phase Three	Phase Four	Phase Five	Est. Totals
Solid Waste Material:									
Soil Waste to Allied Waste, Jefferson City, MO (tons)	31612.12	0.00	31612.12	12155.43	5699.33	8634.32	2178.29	2944.75	31500.00
C & D Waste to Allied Waste, Jefferson City, MO (tons)	725.30	0.00	725.30	169.38	555.92	0.00	0.00	0.00	725.00
MGP Remediation Waste to PDC (tons)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total All Disposal (tons)	32337.42	0.00	32337.42	32337.42	6255.25	8634.32	2178.29	2944.75	32225.00
Clean Material:									
Soil Backfill (tons)	0.00	0.00	0.00	0.00	0.00	0.00			---
1/4-inch Stone (tons)	0.00	0.00	0.00	0.00	0.00	0.00			---
Sand (tons)	0.00	0.00	0.00	0.00	0.00	0.00			---
Rip-Rap (tons)	3432.81	0.00	3432.81	1172.64	1405.79	455.74	0.00	398.64	---
Type 1 Aggregate (tons)	27218.54	1510.42	28728.96	11383.23	4092.76	6599.71	2228.38	2914.46	---
Type 5 Aggregate (tons)	0.00	0.00	0.00	0.00	0.00	0.00			---
One-inch Clean Stone	187.25	0.00	187.25	0.00	187.25	0.00			---
	0.00	0.00	0.00						---
	0.00	0.00	0.00						---
	0.00	0.00	0.00						---
	0.00	0.00	0.00						---
Treated Wastewater:									
Discharged to Columbia Regional WWTP	311849	0	311849						---
Disposed (other)	0	0	0						---
Trucks Transporting:									
	Monday	Tuesday	Wed	Thursday	Friday	Comments			
Disposal	0	0	0	0	0				
Backfill	1	1	1	1	1				

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Soil Samples:

Project Estimates

Original:

Revised:

VOCs (5035/8260)	200	0	200	180	200
SVOCs (8270)	200	0	200	180	200
Metals (arsenic, lead, selenium)(6010)	200	0	200	180	200
Cyanide, total/amenable (9012)	200	0	200	180	200
Per-cent moisture (D-2974)	200	0	200	180	200
pH (9045)	200	0	200	180	200
TPH GRO (8260)	200	0	200	180	200
TPH DRO (8270)	200	0	200	180	200
Reactice Cyanide	0	0	0	10	---
Reactive Sulfide	0	0	0	10	---
TCLP Benzene	0	0	0	10	---
TCLP RCRA Metals	0	0	0	10	---

Ammonia as Nitrogen (EPA 350.1)	10	0	10	25	10
Total arsenic (EPA 200.8)	10	0	10	25	10
Total barium (EPA 200.8)	10	0	10	25	10
Benzene (EPA 624)	10	0	10	25	10
BOD5 (5210)	10	0	10	25	10
Total boron (EPA 200.7)	10	0	10	25	10
Total cadmium (EPA 200.8)	10	0	10	25	10
Total hexavalent chromium (EPA 218.6)	10	0	10	25	10
Total chromium (EPA 200.8)	10	0	10	25	10
Total copper (EPA 200.8)	10	0	10	25	10
Cyanide (SM4500 CN-1)	10	0	10	25	10
Total iron (EPA 200.9)	10	0	10	25	10
Total lead (EPA 200.8)	10	0	10	25	10
Total mercury (EPA 200.8)	10	0	10	25	10
Total nickel (EPA 200.8)	10	0	10	25	10
Oil & Grease (1664)	10	0	10	25	10
pH (4500-HB)	10	0	10	25	10
Phenols (420.2)	10	0	10	25	10
Total silver (EPA 200.8)	10	0	10	25	10
Total Suspended Solids ((2540-D)	10	0	10	25	10
Total toxic organics (EPA 624 & 625)	10	0	10	25	10
Total zinc (EPA 200.8)	10	0	10	25	10



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		Projected Dates		Actual Dates	
General Site Set-up		Start	Complete	Start	Complete
	Field Offices Established - 15 days	12/9/2013	1/10/2014	1/7/2014	1/13/2014
	Perimeter Fence & Gates Revised - 3 days	12/9/2013	12/13/2013	12/12/2013	12/13/2013
	Air Monitoring Stations Established - 2 days	12/19/2013	12/20/2013	12/19/2013	12/20/2013
	Baseline Air Sampling Completed - 6 days	12/30/2013	1/4/2014	12/30/2013	1/4/2014
	WWPT System Assembled - 5 days	1/13/2014	1/17/2014	1/15/2014	1/17/2014
	Traffic Control Plan Signs Installed - 1 day	1/6/2014	1/6/2014	1/7/2014	1/7/2014
Ameren Office Building Demolition		Projected Dates		Actual Dates	
	Asbestos Abatement - 3 days	11/12/2013	11/15/2013	11/12/2013	11/15/2013
	Contents Disposal - 1 day	12/17/2013	12/17/2013	12/17/2013	12/17/2013
	Structure Demolition - 3 days	1/8/2014	1/10/2014	1/13/2014	1/15/2014
	Debris Disposal - 2 days	1/9/2014	1/10/2014	1/15/2014	1/16/2014
Phase One Excavation		Projected Dates		Actual Dates	
	Phase One Excavation	1/17/2014	2/26/2014	1/17/2014	2/26/2014
	Phase One Backfilling	1/27/2014	3/7/2014	1/30/2014	3/6/2014
Sewer Replacement		Projected Dates		Actual Dates	
	Pre-Cast Fabrication	2/17/2014	3/12/2014	2/17/2014	3/12/2014
	Staking	3/3/2014	3/4/2014	3/7/2014	3/7/2014
	Contractor Mobilization	3/5/2014	3/7/2014	3/10/2014	3/10/2014
	Existing Culvert Demolitions	3/10/2014	3/12/2014	3/12/2014	3/14/2014
	Excavation & Subgrade Prep	3/13/2014	3/19/2014	3/11/2014	3/14/2014
	West Junction Excavation	3/13/2014	3/14/2014	3/12/2014	3/14/2014
	Install Pre-Cast Sections	3/20/2014	4/2/2014	3/20/2014	3/21/2014
Phase Two "A" Excavation		Projected Dates		Actual Dates	
	Phase Two Excavation	3/10/2014	3/21/2014	3/7/2014	4/1/2014
	Phase Two Backfilling	3/24/2014	4/4/2014	4/2/2014	4/8/2014
	Old Culvert Demolition	4/3/2014	4/23/2014	3/10/2014	4/11/2014
Phase Three Excavation		Projected Dates		Actual Dates	
	Temporary Structure Assembled - 12 days	4/29/2014	5/9/2014	5/5/2014	5/17/2014
	Ventilation System Assembled - 10 days	5/7/2014	5/20/2014	5/5/2014	5/16/2014
	Temporary Structure Permit Received - 1 day	5/8/2014	5/8/2014	4/11/2014	4/11/2014
	Structure Inspection Completed - 1 day	5/16/2014	5/16/2014	5/17/2014	5/17/2014
	Phase Three Excavation	5/15/2014	7/15/2014	5/21/2014	6/18/2014
	Phase Three Backfilling	6/11/2014	7/3/2014	6/11/2014	7/3/2014
	Structure Disassembled - 10 days	7/8/2014	7/18/2014	7/8/2014	7/12/2014
	Ventilation System Removed	7/14/2014	7/18/2014	7/8/2014	7/9/2014
	Air Handlers Shipped	8/21/2014	8/22/2014	8/21/2014	8/21/2014
	Structure Components Shipped	7/21/2014	7/24/2014	7/10/2014	7/12/2014
Phase Four Excavation		Projected Dates		Actual Dates	
	Phase Four Excavation	7/21/2014	8/1/2014	7/21/2014	7/29/2014
	Phase Four Backfilling	8/4/2014	8/15/2014	7/29/2014	8/4/2014



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		Projected Dates		Actual Dates	
Phase Five Excavation		Start	Complete	Start	Complete
	Phase Five Excavation	8/4/2014	8/13/2014	8/5/2014	8/19/2014
	Phase Five Backfilling	8/14/2014	8/19/2014	8/19/2014	8/22/2014
Site Restoration					
	Final Site Surface Grading	8/25/2014	8/29/2014	8/22/2014	8/29/2014
	Final Site Surface Repair	8/25/2014	8/29/2014	8/25/2014	
	Site Fence Revisions Completed	8/25/2014	8/29/2014		
Site Demobilization					
	Excavation Equipment Demobilized - 2 days	9/3/2014	9/4/2014		
	WWPT System Removed - 2 days	8/25/2014	8/26/2014	8/21/2014	8/22/2014
	LP Tank Removed - 1 day	9/2/2014	9/2/2014	8/21/2014	8/21/2014
	Traffic Control Signage Removed - 1 day	8/29/2014	8/29/2014		
	Sidewalk Reopened - 1 day	8/29/2014	8/29/2014		
	Utilities Disconnected - 2 days	9/2/2014	9/3/2014		
	Facilities Removed - 2 days	9/3/2014	9/4/2014		
	Pac-Van Office Demobilized - 1 day	9/4/2014	9/4/2014		



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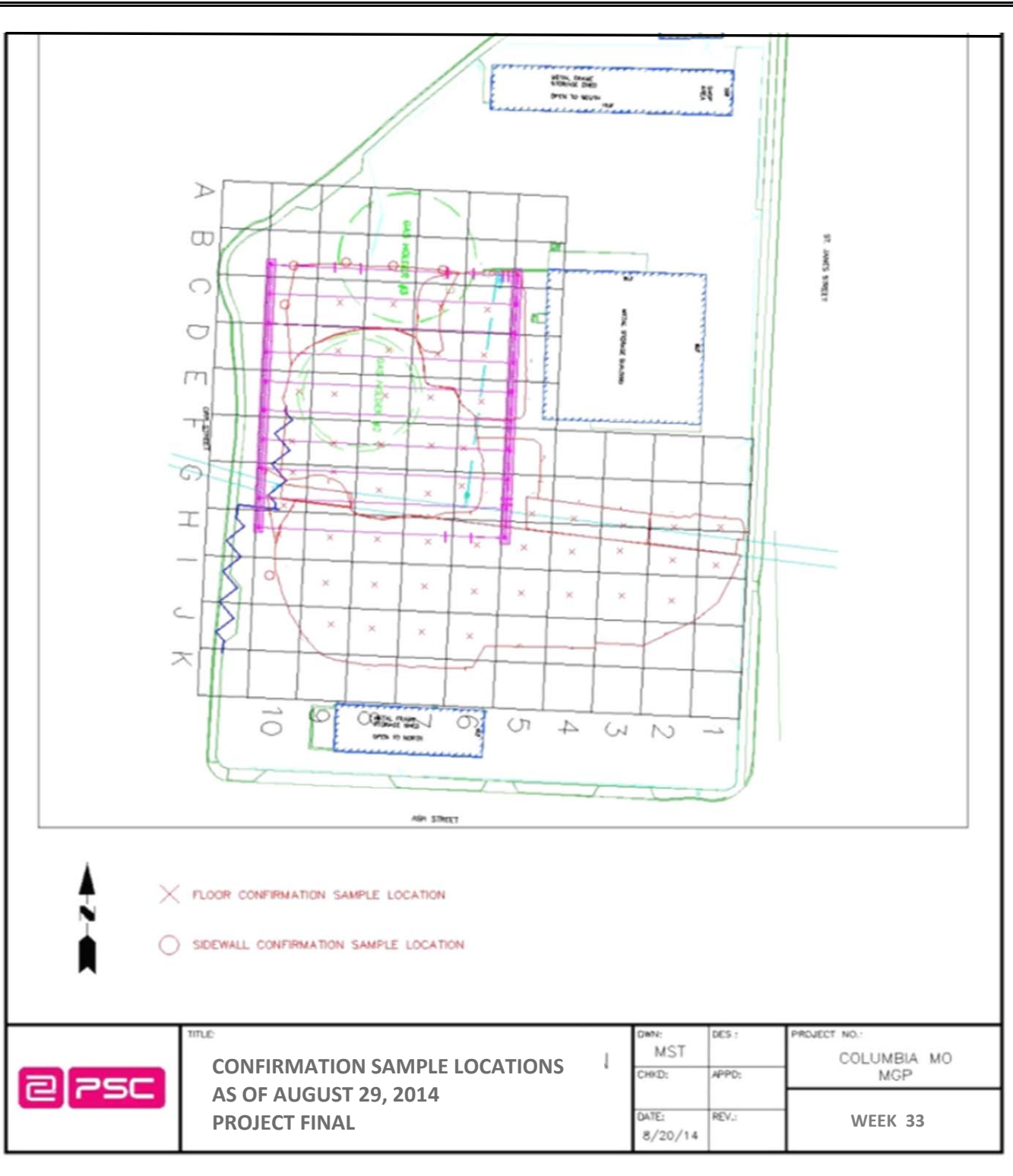
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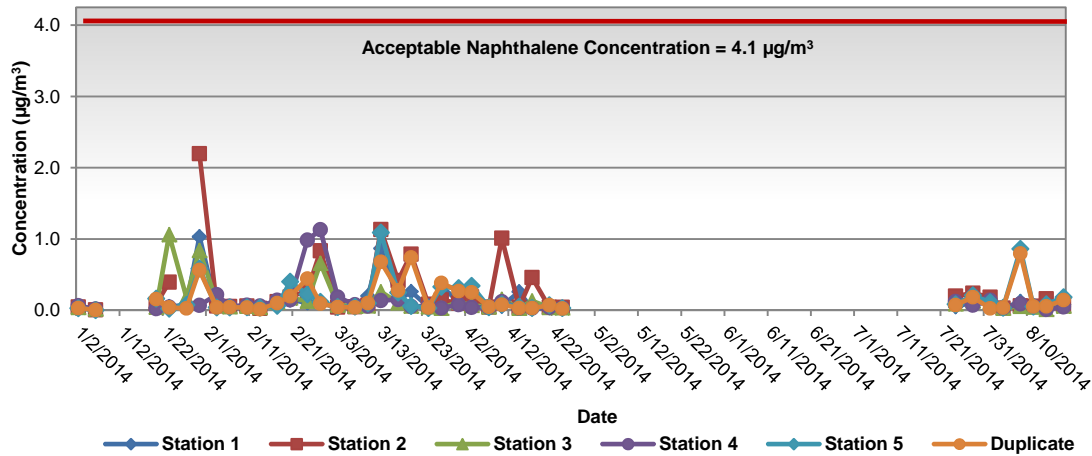
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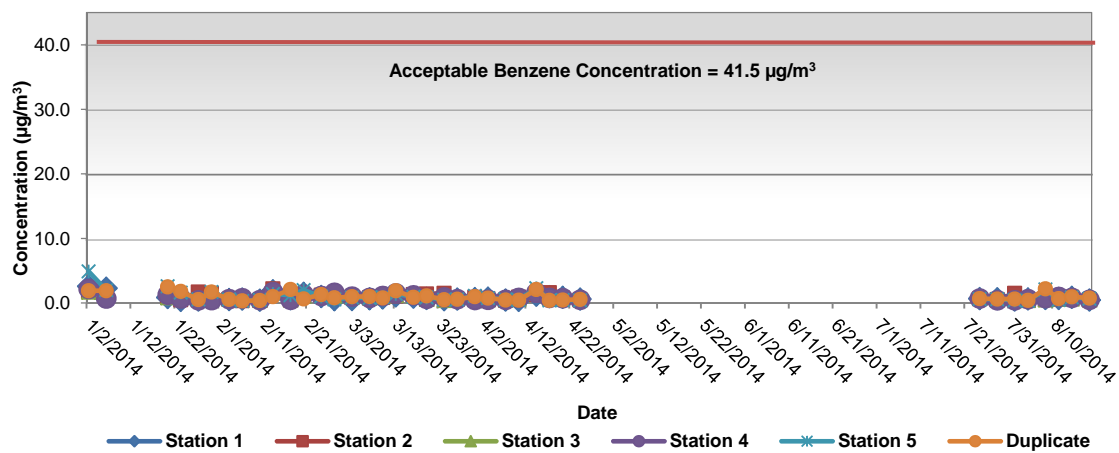


TIME-AVERAGED AIR MONITORING RESULTS Ameren Services - Columbia FMGP

TIME-AVERAGED NAPHTHALENE VS. TIME



TIME-AVERAGED BENZENE VS. TIME



TIME-AVERAGED PM₁₀ VS. TIME

